

19970715.qrp qrp-por0.787

>From owner-qrp-l@Lehigh.EDU Mon Jul 14 18:04 CDT 1997
>Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])
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> for <shimshon@uro.theporch.com>; Mon, 14 Jul 1997 18:04:00 -0500 (CDT)
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>Date: Mon, 14 Jul 1997 19:03:08 EDT
>Sender: owner-qrp-l@Lehigh.EDU
>Precedence: bulk
>From: qrp-l@Lehigh.EDU
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: QRP-L digest 787
>Mime-Version: 1.0
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>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>Message-Id: <97Jul14.190315edt.35040-39110+117@fidoii.cc.Lehigh.EDU>
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QRP-L Digest 787

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- 16) [23033] SST-Internal Batteries
by tgordish@concentric.net
- 17) [23034] Re: FS: 28k8 Modem \$25 (shipped)
by Brian Short <SHORTCKT@primenet.com> (by way of Brian Short
<SHORTCKT@PRIMENET.COM>)
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by Hank Kohl <k8dd@contesting.com>
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by n4oln@juno.com
- 20) [23037] ACRI Summer HB Sprint
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- 21) [23038] ARCI HB Sprint de AB7TT
by Joe Gervais <vole@primenet.com>
- 22) [23039] Goodbye, and thanks for all the fish ...
by mdwatt@usit.net (Marty Watt)
- 23) [23040] ARCI Homebrew Sprint
by flydnq7x@primenet.com (Floyd Smithberg)
- 24) [23041] HB Sprint
by n4js@amsat.org
- 25) [23042] RE: ARCI Summer HB Sprint
by n4js@amsat.org
- 26) [23043] KnightLite Net report - 7/13/97
by Randy Hargenrader <randyh@harksystems.com>
- 27) [23044] Re: KnightLite Net report - 7/13/97
by Joel Malman <malman@BBN.COM>
- 28) [23045] re:hb sprint
by Randy Brace <k8zaa@CompuServe.COM>
- 29) [23046] attn: Walt WA4KAC
by Scott Bauer <ke3nv@erols.com>
- 30) [23047] Field Day Pictures
by Brian Short <SHORTCKT@primenet.com>
- 31) [23048] strange 20
by mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
- 32) [23049] FT-707 for sale/swap
by Jim W7LS <w7ls@brigadoon.com>
- 33) [23050] Re: QRP AField/Movie "Contact"
by dzn1@juno.com (Howard D Rubin)
- 34) [23051] Data Book fro QRP'ers
by n1pwu@juno.com (Robert K Berlyn)
- 35) [23052] The oldie but goodie double Marconi antenna

by Rogerio Gonzaga <gonzaga@med.up.pt>
36) [23053] Very Low Power/SCS PTC-II
by n4so@juno.com
37) [23054] QRP Summer Contest
by n4so@juno.com (charles k brown)
38) [23055] HB Sprint
by "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
39) [23056] Re: Mars Lander to Rover QRP
by Stephan Greene <sgreene@washesq.com>
40) [23057] QRP AField, Sept. 20, 1997
by wa5whn@juno.com
41) [23058] Mars Lander to Rover QRP
by Peter_Simpson@3com.com
42) [23059] Re: 49Mhz to 6Meters conversion?
by dwink@juno.com (Daniel C Winkler)
43) [23060] Mars Lander to Rover comms
by Peter_Simpson@3com.com
44) [23061] Re: QRP @ 75W
by Chris Cartwright <ccart@dns.vidtel.com>
45) [23062] Re: New Callsign
by N2QCE@aol.com
46) [23063] Re: 75W Category Proposal
by k8cv@juno.com (Walter D Amos)
47) [23064] BuzzNot noise blanker
by bcutter@teal.csn.net (Bob Cutter)
48) [23065] Laurel Show and Tell 5-JUL-97
by Chris Cartwright <ccart@dns.vidtel.com>
49) [23066] Re: Straight Key Stuff
by tahrens1@juno.com (Tim H. Ahrens)
50) [23067] Re: Milk Cartons
by adams@chuck.dallas.sgi.com (Chuck Adams)
51) [23068] Re: 49Mhz to 6Meters conversion?
by Bill Todd <bill@techline.com>
52) [23069] ARCI Homebrew in Duckland
by Russ Carpenter <russ@natworld.com>
53) [23070]
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
54) [23071] Looking for Floyd - NQ7X
by Brad Mugleston <bmug@gwl.com>
55) [23072] Re: Antenna loading coils
by Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
56) [23073] QRP++ front end overload
by "Jeff M. Gold" <JMG@tntech.edu>
57) [23074] Re: Looking for Floyd - NQ7X
by Brian Short <SHORTCKT@primenet.com>
58) [23075] Mars Rover Communications
by n4so@juno.com
59) [23076] re Antenna loading coils / EZnec

- by Goran Hosinsky <rodriguez@jet.es>
- 60) [23077] Re: Movie CONTACT
by Bill Howell <bhowell@mail.utexas.edu>
- 61) [23078] Re: 38S: filter xtal question
by "Jim Kortge, K8IQY" <jokortge@mci2000.com>
- 62) [23079] Re: re Antenna loading coils / EZnec
by "Jim Kortge, K8IQY" <jokortge@mci2000.com>
- 63) [23080] Re: ARCI Summer HB Sprint
by Ed Loranger <we6w@qsl.net>
- 64) [23081] RS \$5 HT's
by kd4kzq@juno.com (Jim A Norsworthy)
- 65) [23082] EMTECH NW-40 repair finale: THANKS, GANG!
by "Allan G. Taylor" <ataylor@heracles.llnl.gov>
- 66) [23083] RE: QRP++ front end overload
by Larry East <w1hue@amsat.org>
- 67) [23084] Re: 75W Category Proposal
by n4js@amsat.org

Date: Sun, 13 Jul 1997 19:58:49 -0400 (EDT)
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
To: qrp forum <qrp-l@Lehigh.EDU>
Subject: [23018] Spectrum analyzer test of an SST
Message-ID: <Pine.BSI.3.93.970713195757.19062A-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Back on 18 June (Daily Digest 761, message #21579), NA5N gave a detailed technical report on an SST. Among a whole lot of other things, he mentioned the harmonic suppression seen on a spectrum analyzer. A while back, WA4KAC (Walt Thomas) let me borrow his 40M SST and check the spectrum at work. I went into it in more detail, measuring both the second and third harmonics at a variety of power supply voltages. Here are the details in case anyone is interested.

Walt's rig is pretty much stock, although he did experiment with a variety of final transistors and ended up with a 2N5262 that I gave him once, since it provided a bit more power. He mentioned that he simply wound the toroids as specified in the manual and did not experiment with compressing and squeezing the turns to get maximum power. (I wanted to keep the rig longer and remove the coils and caps in the filter to check the actual values, but he wanted to get the rig back on the air.)

Equipment setup--HP E3630A variable DC power supply, HP 8590B spectrum analyzer, .Weinschel 30 dB attenuator (50 watt rating!)

model 24-30-34. The output of the SST was fed through the attenuator into the spectrum analyzer. Power levels given are in dBm, or in relation to 1 milliwatt at 50 ohms, and were later converted into watts. Precise attenuation of the Weinschel was not checked since I wasn't interested that much in the fundamental power, just the harmonic suppression, and is presumed to be the nominal 30 dB. The harmonics are given in negative dBc, or dB below the carrier level.

DC volts	Power dBm	Power watts	2nd harmonic -dBc	Third harmonic -dBc
13.8	34.4	2.75	37.3	61.3
12.0	33.2	2.09	37.4	61.0
11.0	32.48	1.77	37.44	60.8
10.0	31.59	1.44	37.7	60.0
9.0	30.85	1.21	37.66	59.55
8.0	29.53	0.90	37.77	58.8
7.0	28.27	0.67	37.76	58.0
6.0	27.1	0.51	37.62	57.5

Although the sweep on the analyzer was set wide enough to see higher harmonics, they were lost in the noise level (which was around 70 dB below the carrier level when the voltage was set to 12.0). No attempt was made to monitor the signal for quality or otherwise check performance at the various voltages. The sole purpose of the test was to observe the harmonic suppression. Interestingly, the second harmonic remained relatively constant (and easily legal since the FCC requirement for under 5 watts is 30 dB minimum), while the third harmonic showed a steady deterioration as voltage went down. I'm not going to worry about that too much, considering that it still exceeds the FCC spec by at least 27 dB :-)

73 and Queue Our Pea DE WA8MCQ

wa8mcq@abs.net

Date: Sun, 13 Jul 1997 18:57:18 -0500
From: "Bruce Barley" <lbbbarley@feist.com>
To: <qrp-1@Lehigh.EDU>
Subject: [23019] open line SWR meter - GONE!
Message-ID: <199707140002.TAA15535@wichita.fn.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Thanks to all of my fellow qrp-er's who responded to my FS on the open line SWR meter.

I had hoped for a few responses, but I never in my wildest dreams imagined that there were so many hams using open wire feeders. With that kind of activity and interest I would have imagined that SOMEONE out there would still be marketing these things to the Ham community. Either they are not, anymore; or else I have been living under a rock.

This little puppy which I stumbled on to at a flea market is the first one I've ever seen - either in person or in any advertising literature.

I hope the ham my daughter selected from among all those who replied will make a good home for it. I'm glad I did it this way as there were a number of you who responded that get only the digests of qrp-l.

Best wishes to all. We'll have to try this again sometime. It's been fun!

Bruce Barley KB0PZD qrp-l #69
lbbarley@feist.com

Date: Sun, 13 Jul 1997 17:05:50 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@Lehigh.EDU
Subject: [23020] ARCI Summer HB Sprint
Message-ID: <199707140005.RAA15037@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, condx were not all that great, but I did manage to get on between chores. Only 7 contacts on 20, none on 40. Caught N4ROA in VA after his CQ, and K5SQV came back to me from MS, so not all that bad. Mostly CQ, though.

A thought, guys. If you're going to play, join the club. We members are giving you 5 points, and only getting 2 in return. Of the 7 contacts, only 3 were with members, or folks who had numbers. Maybe we ought to change the scoring so that members submitting logs get a bonus to make up for the imbalance :^).

Great fun, anyway. Maybe when the cycle gets back on track it will get better.

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP
ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=18 30=18 17=0 12=0 States=15/0/0 DX=0/0/0 QSL's=5

Date: Sun, 13 Jul 97 20:37:34 EDT
From: Joel Malman <malman@BBN.COM>
To: ki7mn@dancris.com
Cc: qrp-l@Lehigh.EDU, malman@BBN.COM
Subject: [23021] Re: ARCI Summer HB Sprint
Message-ID: <199707140037.UAA53866@nss2.CC.Lehigh.EDU>

Bob,

> A thought, guys. If you're going to play, join the club.

Interesting comment... I suspect that as more non-members join the fun,
they will want join the club ... seems only natural. Besides members
get some great reading every 3 months or so.

Here on the East coast the QRM was very bad and QRN static also bad.
This time I decided to compete single band (40m) and I worked 22 Q's
with 16 members. Clearly a 10 on the fun meter.

/joel wa1qvm (malman@bbn.com ... Concord, Ma.)

WIMPS: Qs=202 30m=184 17m=17 12m=01 States=26/04/00 DX=052/12/01

Date: Sun, 13 Jul 1997 20:38:42 -0400
From: Steve Heyroth <sheyroth@compuserve.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [23022] 50/40/30 KS
Message-ID: <199707132038_MC2-1AC7-C4B4@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

You'll all want to mark your calendars for this event. I will represent the great state of Kansas in 50/40/30 on August 26. OHR Explorer II running 2 watts on 30 meters 0000-0200Z and OHR 100 running 5 watts on 40=

meters from 0200-0400Z. See you then.

72,

Steve N5CLU

Date: Sun, 13 Jul 1997 19:46:50 -0500
From: "Owen 'OJ' Quarles" <k1oj@swbell.net>
To: qrp-l@Lehigh.EDU
Subject: [23023] ARCI HB SPRINT
Message-ID: <33C976FA.452F@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy from Texas!

Well the bands were 'stinko'. Lots of noise and poor propagation. Managed to get 58 contacts. OHR-400 worked well but I have got to find a noise blanker circuit for this little guy. Thanks to the ARCI group for the contest.

CU---OJ---K10J

HOUSTON, TX

QRP-L 732

..

Date: Fri, 11 Jul 1997 03:44:57 utc
From: k7sz@juno.com (Richard H. Arland)
To: qrp-l@Lehigh.EDU
Subject: [23024] The HB Srpint and the SST
Message-ID: <19970711.034501.4663.5.k7sz@juno.com>

Gang:

Had the 20 meter SST on the bands this evening for the HB sprint. What follows are a few observations.

1. The tuning on my SST is 30 kc with the MV-201 and 50 kc with the

MVAV-108. Unfortunately the latter does not offer coverage in the QRP section of the band, as it stops at 14052.5 khz. Therefore I opted to use the narrower tuning range offered by the MV-201 varactor.

2. The stock IF BW is way too narrow. I performed the mod as outlined in the manual and it is still too narrow for my liking. I'll have to do some cap substitutions and see what I can come up with.

3. Even with the wider IF BW (after the mod) tuning was still much too critical. There is no room for a vernier drive so out came the box of knobs and a spare NC-40A main tuning knob was stuck on the front of my SST. It looks a little wierd, but it does a much better job of tuning in stations.

4. This is a Minimalist's radio. Therefore, it is designed to be used when camping, hiking, ect, NOT in a normal hamshack. The controls are somewhat crowded and I find that this is not a pleasurable rig to operate like the Sierra of the NC-40A.

5. Performance is fantastic considering that it has about 1/2 the parts of a NC-40A and is about 1/3 the size. Wayne Burdick did one hell of a job designing this rig. Power output with a 13.8 volt DC supply was 2.25 watts. On a 12 volt Gel-Cell power drops off to just under 2 watts. Receive sensitivity is very good and selectivity (of the stock radio) is so good, you often tune right past stations unless you tune R-E-A-L S-L-O-W.

I have not tried this radio into a less-than-optimal antenna, and I suspect, upon reading the manual, that performance will suffer drastically if the antenna is not exactly 50 ohms at the operating frequency. End of the month, I'll be testing this theory on the Flight of the Bumblebees from Lake Wallenpaupak.

73 rich K7SZ

Date: Sun, 13 Jul 1997 21:26:03 -0400
From: Ed Tanton <n4xy@bellsouth.net>
To: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [23025] 75W Category Proposal
Message-ID: <3.0.1.32.19970713212603.00aa7c80@mail.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi All... I would like to propose we define three categories:

From: WD6BOR@aol.com
To: w4qo@america.net, qrp-1@Lehigh.EDU
Subject: [23026] Re: Pacificon
Message-ID: <970713212648_-592101479@emout18.mail.aol.com>

I've already bought my ticket (\$3 in advance) and plan to be there October 17-19, 1997 at the Concord Hilton. See you there!

Darrel, WD6BOR

Date: Sun, 13 Jul 1997 21:27:05 -0400 (EDT)
From: WD6BOR@aol.com
To: jayboy@empnet.com, qrp-1@Lehigh.EDU
Subject: [23027] Re: Help:SLV Carrying Case?
Message-ID: <970713212702_-1694900997@emout02.mail.aol.com>

My carrying cases for my SLVs (original and Vern's mod) are made from one 10' length of 3" diameter styrene unperforated drain pipe and two 3" styrene pipe caps. I experimented with regular schedule 40 PVC in different sizes and found them to be too heavy. I've cemented a cap on one end of each tube and just slip a cap on the other end. If I were sending this through baggage on an airplane I would drill and install two #6 x 1/2" pan head tapping screws through the side of the opening end cap into the tube to keep the cap from being knocked off during handling. The resulting 5' long tube gives me enough room to fit the pole with coil on the pole and the radials wound around it as well as the ground mounting spike slipped in the end.

The resulting carriers would probably still be too heavy for backpacking but do a good job of keeping all the parts together and protecting the pole while transporting it to a remote site. I've run across fishing pole carriers using a similar carrier with a fabric sheath and handle over the tube but they cost around \$20 each. I was able to build both of my SLV carriers for under \$10 total with parts from my local building supply.

Good luck and 72/73,

Darrel, WD6BOR

Date: Sun, 13 Jul 1997 20:23:28 -0500
From: ac5am@juno.com (Robert L Stolzle)

To: qrp-1@Lehigh.EDU
Subject: [23028] AC5AM's QSO's for QRP-ARCI Sprint
Message-ID: <19970713.202502.3374.0.ac5am@juno.com>

Thought I would list my QSO's since I won't be sending in my logs.
Worked 20M only using 1 watt output and a triband 3 element beam.
Had one QSO on 40M with Jim K9PX ex WB9PXR. Haven't heard him in
a while. Left 40M, too much QRN for my ears.

Had a great time and good to hear some old friends; Les, K4NK; Bob,
AE4IC;
Glenn, AE0Q; John, VE3JC; Harvey, N6MM; Gary, K50N; Larry, KC0M; Jim,
N0UR;
Cam, N6GA; Bill, KP3S; Bob, K2LGJ; Cam, HP1AC; and many more.
Also worked some new ones like Sott, KC8EAA. Nice going Scott.

Seems everywhere I went on 20M I heard AE0Q and AA7QU. Had tble working
KP3S but finally got him . Heard Randy XE1/K8ZAA, called him but no QSO.

N4ROA 39 QSO's 26 SPC's (rough count)
AE4EW
NE0C
K0LWV Had fun even though conditions were poor but
was
KC8EAA surprised how 2 land and 6 land came in during
last
K4NK hour. Even worked a 2 on back of beam.
AE4IC
AE0Q
WB9YYG/8
VE3JC Hope everyone had as much fun as I did. See
y'all on the
KC4MHM bands. I do work QRO some since I like to rag
chew. 17M
K7SZ in evening is great these days and 10M opens
about that
WB9ZWW time once in a while too.
AA7QU
N6MM Will QSL to all I receive.
K8BBM
K50N
KC0M 72/73,
N4KZ
N0UR Bob, AC5AM
KM3D
VE2KN
WA0ZPT Oh, anyone wants to join our AR QRP Club is

welcome. Its free.

K0DN
0130Z

Just check in to our weekly net on Mondays at

N7XM

on 3560Khz. Bob, N9ZZ usually NCS.

W5VBO

K9PX (only 40M QSO)

N6GA

N7GS

KP3S

K2LGJ

HP1AC

N2MNN

WA2BQI

W6SU

K4AHK

W2QIP

VE1ZAC

KN6YD

Date: Sun, 13 Jul 1997 21:27:00 -0400 (EDT)

From: WD6BOR@aol.com

To: NilsBull@aol.com, qrp-1@Lehigh.EDU

Subject: [23029] Re: Badgers organizing, getting dangerous?

Message-ID: <970713212659_491701273@emout07.mail.aol.com>

In a message dated 97-07-12 03:03:10 EDT, NilsBull@aol.com writes:

<< . . . Personally, I think they might have a neat certificate program.

Talk

to X number of badgers and get a plaque. Talk to X more and get a dentist
appointment. Talk to X more and the dentist will remove the plaque. Hmmm . .

>>

Nils,

Thank the good god of badgerdom that you've finally stumbled across the
badger certificate program. I'll follow any profit who is willing to start a
badger network and BBS(Badger Broadcasting System, or BS for short) to help
spread the word on this remarkable badger alien presence. As was pointed out
in the documentary "Men in Black" there are numerous alien badgers living
among us without our knowledge. What we perceive as high speed code on the HF
bands turns out to actually be ethereal badger communications. Speak out,
Brother Nils, and let the world know of the coming of the badgers.

Yours in Badgerhood,

Brother Darrel, WD6BOR

(Those nifty badger "certificates" should raise a nice chunk o' change for the badger ministry too!)

Date: Sun, 13 Jul 1997 21:35:10 EDT
From: wb2vuo@juno.com (William K Hibbert)
To: qrp-1@Lehigh.EDU
Subject: [23030] QRP and Power levels
Message-ID: <19970713.213403.2063.0.wb2vuo@juno.com>

>From the FCC Rules:

Part 97.313 Transmitter power standards.

(a) An amateur station must use the minimum transmitter power necessary to carry out the desired communications.

-----< snip

>-----

Forget the rest, O bretheren and sisteren... It's just technical mumbo-jumbo.

"the minimum transmitter power necessary to carry out the desired communication..."

Not too hard to grasp. Will 5 watts do the job? Run it! Will you need 25 watts (50 watts?? 75 watts ?? 100 watts??) Run it! Will you feel guilty about running the pin over the "Magic" 5 watts out?? If you "desire" the contact, and the communication is necessary, RUN THE POWER, and get as much mileage out of your guilt as you can.

Are you working an Operating Event (read...CONTEST) that requires that you stay under the Magic 5 watt level? Play by the Rules, and pick the most restrictive ones if that's what's needed...

Look, QRP is a mindset, not a straightjacket. I get a real kick out of running ONLY QRP, and that's the way I go at the hobby. If the chips are down, I REALLY need to contact whomever, the power WILL go up, but I

haven't felt the need, I don't pursue DX, but let it come to me and have high blood pressure already. There's no need to raise it anymore just to get the Rare One that got away. (He/she can't get away when I am not in pursuit...)

Have a blast, enjoy your hobby/lifestyle/habit/etc... Let Amateur Radio and QRP keep you off the couch rather than driving you to one. Freud was a fool, but many have developed large Leather Hip Tumors from the Fat Wallets that Freud provided them at someone's expense...

As always,

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, NQ2RP/B 10 Mtr QRP Beacon (QRP @ 28.287 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"
^^

Date: Sun, 13 Jul 1997 18:43:47 -0700 (MST)
From: Brian Kassel <bkassel@dancris.com>
To: qrp-l@Lehigh.EDU
Cc: 0007544855@mcimail.com, Larry.Cruise@mci.com
Subject: [23031] ARCI HB Sprint - W5VBO Results
Message-ID: <199707140143.SAA20021@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Folks:

Well, as usual had a great 4 hours courtesy of CAM, N6GA and the folks at ARCI. Conditions were only fair here, and lot's of deep QSB. I used my trusty OHR Exploror II at 2.5 W, 3 el tribander at 35 feet on 20M only. I really wanted to do a "high band" class entry, but could find *NO* sigs on 10 or 15M to work. I put out a number of CQ's too. Well, shucks a feller kin hope eh?

I wound up with (194 Points) X (31 SPC) X 7 + 5,000 = 47,098

Sure enjoyed some real live DX too, like KP3S, HP1AC and XE1/KB8ZAA.

I worked several of my fellow ScQRPions too.

If you haven't tried these nice short events, you *REALLY* ought to.
Nice, slow, laid back, the usual great skills of the QRP crowd.

Hey I'm ready again already for the next one!

Date: Mon, 14 Jul 1997 02:45:23 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: bfollett@ditell.com
Cc: qrp-1@Lehigh.EDU
Subject: [23032] Re: Solar Flux -- Really Low
Message-ID: <199707140145.CAA02291@chuck.dallas.sgi.com>

Bob,

I was hoping that everyone would forget. I personally could not believe that it stayed down and has even gotten lower. Maybe it's the calm before the storm.

I was looking at the H-Alpha daily photos and it looked like at the time a large active region was coming round the bend (so to speak) but alas it was not to be. This was the prediction a month ago. Today saw no activity at all so no wonder the 67 value for the flux.

I see the light at the end of the tunnel but it's a train. :-)

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/>
<http://reality.sgi.com/adams/code.html> -- online Morse Code course
WIMPS: Qs=043 30m=32 17m=5 12m=0 States=23/05/00 DX=03/00/00 QSLs=015

Date: Sun, 13 Jul 97 18:49:47 +0000
From: tgordish@concentric.net
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [23033] SST-Internal Batteries
Message-ID: <199707140147.VAA13945@mcfeely.concentric.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

QRP Folk,

Well after starting a never ending thread on Renewal Batterys, I was discouraged from using them do to the problem with charging them while in the rig. I opted for little cordless phone batterys available from Radio Shack. I bought 2 packs of 3 cells and one pack of 4 cells and soldered them all together. They fit nicely into the SST and give 12v. Total rig weight with batteries is only 11.5 oz. Then I hooked up to the switch and made a solder bridge accross the power switch contacts so that I could charge the batteries while hooked up to external power and the switch set in the BATT position. Checked it out and seems to be working fine. Tried a couple of CQ's but no one was out there. Now a couple of questions:

1. These batteries are rated at 250mah, will this amount of power get me through a 2 hour Spartan Sprint or do I need to crank the power down a bit?
2. What would make a good charging voltage for these 10 little ni-cads? Is it 13.8v like I use with my gel-cell?

Look out you Spartan Sprinters! (I hope I don't regret divulging the secrets of my set up!) I won't be able to run the August Sprint, but will be bringing the rig with me while I serve my annual 35 Navy reserve days at Great Lakes Naval Station.

72 de

Tim & Aretta Gordish
KB9LGJ & N0YDG
Yuma, AZ

QRP-L #457, ScQRPion #25, IDEA, ARRL
Rigs: 38-S, 20m-SST
WAS on 30m: 20 confirmed

All the nations may walk in the name of their gods, we walk in the name of the Lord our God for ever and ever" Micah 4:5

Date: Mon, 14 Jul 1997 02:02:52 +0100
From: Brian Short <SHORTCKT@primenet.com> (by way of Brian Short
<SHORTCKT@PRIMENET.COM>)
To: QRP-1@Lehigh.EDU
Subject: [23034] Re: FS: 28k8 Modem \$25 (shipped)
Message-ID: <3.0.1.32.19970714020252.006a0548@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The modem has been sold.

>28.8 data/fax/voice modem, Rockwell chipset
>ISA internal with Win '95 driver disk
>
>Purchased for wife, used for a week, now she
>has a new PCI motherboard and no extra ISA slot
>
>\$25 shipped (Priority Mail)
>
>1994 E Laguna Dr Tempe, Az 85282 (602)839-3484
> k7on@qsl.net >or< <http://www.qsl.net/k7on>

Date: Mon, 14 Jul 1997 02:11:08 +0100
From: Hank Kohl <k8dd@contesting.com>
To: qrp-1@Lehigh.EDU
Subject: [23035] Re: QRP @ 75W
Message-ID: <2.2.32.19970714011108.006b8504@tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 15:53 7/13/97 -0400, ab5l wrote:

>K5ROV de AB5L -- QSL UR POST ON NEED MORE PWR SOMETIMES

>
>Ample precedent exists for a <100W power designation. That was the QRP ARCI
>Rule when I, #4400, joined. But in 1984 there was an election. We decided
>to stay with 100W but the newsletter folks were not happy, so they held
>another. I was not asked to help count those votes, but I get the impression
>we would have just had another, had we not succumbed to 5W, output, and the
>rest. Since then 5W input has become both dogma and mantra.

Just like school millage elections! Vote till it passes.

I think instead of going to 75 or 100 watts, why not go to 50 watts? 10 db

above the QRP-ARCI (and others) definition of QRP and use QRPo for 5 to 50 watts.

QRPp <1W
QRP <5W
QRPo <50W
QRO >50W
QROO >1500W

Informally, of course.....No need to change anyone's constitution or by-laws. Just add another Q signal. It may catch on!

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS (k8dd@tir.com)
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

Date: Sun, 13 Jul 1997 22:08:15 -0700
From: n4oln@juno.com
To: ac5am@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [23036] Re: AC5AM's QSO's for QRP-ARCI Sprint
Message-ID: <19970713.220815.11622.0.n4oln@juno.com>

Hey Bob,
Sounds like you had fun too.

The rig that Mike W3IRZ made worked pretty good on 40 meters but as you know there was a lot of QRN and condx were a bit bad. The last hour on 40 was beginning to get nice.

Worked:

AC4QX
KM3D
W3MWY
K5SQV
WA8LCZ
N4ROA
AE4IC
K3SS
AE4MZ

W2UX
N8ET
NU4N
WD3P

No real complaints here. Had fun.

72's
gary-N40LN

Date: Sun, 13 Jul 1997 22:11:36 EDT
From: kc4mhm@juno.com (ed miller)
To: qrp-1@Lehigh.EDU
Subject: [23037] ACRI Summer HB Sprint
Message-ID: <19970702.151157.4791.2.KC4MHM@juno.com>

Gang:

This was the best conditions I've had in my short QRP experience. Some said their conditions were terrible and I wish I could have lent you some of mine. The hardest part was selecting one signal or holding it long enough to work it. So many signals so little time, if I could have worked all that I heard I'd had a million points. Heard N6GA but could not work him, heard others work him though. Did work VE1ZAC NS, AA7QU OR, KP3S PR, and many in between. Not bad for an SST. Thanks to all I worked , for your patiences and for putting up with my lack of experience. I enjoyed it.

73 de Ed

KC4MHM@juno.com

Date: Sun, 13 Jul 1997 19:17:17 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [23038] ARCI HB Sprint de AB7TT
Message-ID: <199707140217.TAA27957@usr08.primenet.com>

Howdy Folks,

Man, what a brutal afternoon on the bands! Nice turnout on 20m, but 40m was darn near a ghost town. In fact for a long while I was afraid I wouldn't even get to use

my HB bonus on 40m. Gotta make a QSO to earn the bonus!
Many thanks to Jeff (KN6YD) for breaking open 40m for me.
I was getting lonely. :)

Nice to work the usual suspects, including local ScQRPions
NQ7X, W5VBO and W9UQB. N7VE must've been out there some-
where. East valley ScQRPions are in my skip zone, but hope
they had fun out there too.

The "Above and Beyond the Call of Duty" award goes to
AA7QU. One of my *very* few QSOs on 40m, Russ stuck with
me even though I could barely copy through QSB, QRM and
QRN. He must've sent his exchange a dozen times before I
could grab it all. Thanks Russ!

So why were folks avoiding 40m? I was getting 579-599
reports out of CA from the few ops there. Where did all
those NorCal-40a's go? Hibernation? Alien abduction?
FCC auction? :)

Thanks to all who worked me. And thanks to those who
tried but failed. I tried my best, but sometimes the QSB
devoured sigs without warning. W0LK just plain disappeared
in mid-QSO. :(

Preliminary Results de AB7TT:

17 SPCs, 27 Qs (19 members, 8 non)
Sierra xcvr: 20m HB (+5,000), 40m HB (+5,000)

$(19 \times 5) + (8 \times 2) = 111$ QSO pts.

111×17 (SPCs) $\times 7$ (2w) + 10,000 = 23,209 Points.

Soapbox: Brutal but fun. :)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"'Fraid nobody around here, understands my potato;
Think I'm only a Spudboy, looking for a real tomato." -DEVO

Date: Mon, 14 Jul 1997 02:41:14 GMT

From: mdwatt@usit.net (Marty Watt)
To: eo-list@linklore.com, orthodox-forum@ucsd.edu, orthodoxy@lists.best.com, qrp-1@Lehigh.EDU
Subject: [23039] Goodbye, and thanks for all the fish ...
Message-ID: <33ca89de.216371818@smtp.usit.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Like the dolphins of the Scott Adams world, I bid all adieu, peace,
and Godspeed.

With the new job, I find myself to be traveling more. I'm preparing
for a wedding this weekend (I'm the best man), a move the following
weekend, starting a new job the following week, and a business trip
the week after than (Sunday to Sunday).

Perhaps when the priorities work out, and work settles a bit, I can
return. For now, adieu!

God rest ye merry,

Marty Watt
(the Servant of God John)
Amateur Radio operator KM7W

Date: Sun, 13 Jul 1997 19:51:18 -0700 (MST)
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-1@Lehigh.EDU
Subject: [23040] ARCI Homebrew Sprint
Message-ID: <199707140251.TAA19558@usr03.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well another 'learning experience.' Played 20M only and ran 15 the first
hour, dropping to
12,11 and 8 as pickings grew slimmer. Picked up KP3S, HP1AC and a number
across the north
border. Heard nothing from CA and very few from the NW but managed to work
33 members out
of a 46Q total. The OHR 2040 was great at 5W and did well on receive with
all the QRN, QSB
and QRM. The 4 hrs went by FAST including time off to do a few honeydews.
Gear: OHR 2040 at 5W.

OHR WM-2
Ant 3 Element Tribander at 45'
CMOSIII keyer and Envirotronics paddle
Logger LOG-EQF

Results: 46Qs for 191 pts X 25 SPCs X 7 pwr multiplier + 5000 HB xcvr =
38425 Score

Maybe not a great score but sure a fun event. Now if I can get my
computer/logging program

interfaced to key my rigs.....

73 Floyd NQ7X Phoenix ScQRPion DM33uq

ARRL ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=103

Date: Sun, 13 Jul 1997 21:50:21 -0400 (EDT)
From: n4js@amsat.org
To: qrp-l@Lehigh.EDU
Subject: [23041] HB Sprint
Message-ID: <XFMail.970713215354.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

Well, missed first 1 1/2 hours troubleshooting the OHR400. It wouldn't receive
on 40M, all of a sudden. Found a pin on L101 on the oscillator board wasn't
soldered. Fixed it, and jumped in. 32 Q's on 40 and 80, none on 20! 20 was
really crummy here.

(Yes, I could have used another rig, but I am pig-headed, and HAD to fix the
darn OHR400!)

Fun contest, anyway!

Sent at 21:53:54 on 13-Jul-97

John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@n4js.ampr.org NJ Grid:FM29LN
<http://www.qsl.net/n4js> NJ-QRP #57 QRP-L #884
QRP-ARCI #9328 CQC #443 CQrp #50
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=027 30m=24 17m=3 12m=0 States=09/02/00 Countries=14/02/00

Date: Sun, 13 Jul 1997 21:47:49 -0400 (EDT)

From: n4js@amsat.org
To: Bob Hightower <ki7mn@dancris.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23042] RE: ARCI Summer HB Sprint
Message-ID: <XFMail.970713214948.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

On 14-Jul-97 Bob Hightower typed:

>A thought, guys. If you're going to play, join the club. We members are
>giving you 5 points, and only getting 2 in return. Of the 7 contacts, only 3
>were with members, or folks who had numbers. Maybe we ought to change the
>scoring so that members submitting logs get a bonus to make up for the
>imbalance :^).

My experience was the opposite, out of 32 Qs, only 4 or 5 were non-members. (I have to print log to make sure) Maybe us East Coasters are different.

Sent at 21:49:48 on 13-Jul-97

```
John L. Sielke n4js@amsat.org n4js@pobox.com
| \ | | | | _ | | / _ | n4js@n4js.ampr.org NJ Grid:FM29LN
| . ' | | _ _ | | | | \ _ _ \ http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
| _ | \ _ | | _ | \ _ _ / | _ _ / QRP-ARCI #9328 CQC #443 CQrp #50
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=027 30m=24 17m=3 12m=0 States=09/02/00 Countries=14/02/00
```

Date: Sun, 13 Jul 1997 23:01:57 -0400
From: Randy Hargenrader <randyh@harksystems.com>
To: klqrp@acpub.duke.edu, qrp-l@Lehigh.EDU
Subject: [23043] KnightLite Net report - 7/13/97
Message-ID: <33C996A5.4E4E@harksystems.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A good turn out for the KL Net on Sunday night!! Thanks to all who participated. Condx were better than usual and we had some very nice signals at qrp levels show up!

QNS: K4NK Les, Greenville, SC was 579 - "wrked ARCI test this afternoon... wrked sum DX... had fun!"
W3KC Chas, Kensington,MD was 459 - "5w to loop"
WA1QVM Joel, Concord,MA was 339 - Joel, we tried! thanks!!
AA4XX Paul, Raliegh, NC was 599 - "Gud to hear gud turnout-

Been working on Bumblebee antenna for 20m..."
KE4RUO Jim, Angier, NC was 599 - "5w here"
W4DON Don, Statesville, NC (?) was 579 - "1W out!!"
VE3JC John, Ontario was 349 QRN QSB - "...out....t...hml..."
(Sorry John, didnt get much of your report, but heard you
in there!! thanks for hanging in there!)

Yours truly (WJ4P) made it 8 stations total. It was fun to see what
our 'lil 'ol radios can do... Thanks for the participation!

The KnightLite net starts at 9:30PM eastern time on Sunday night on
3.686.4 (+/-) MHz. All are welcome. When you check-in you get a
turn to give the gang a report from your neck of the world. WX, new
projects, DX worked - its all fair game... Come give it a try!

--

73, (Sir)Randy WJ4P
Knightlites QRP-L #296 ARCI #9152 1996 40-9er High Scorer

Date: Sun, 13 Jul 97 23:27:09 EDT
From: Joel Malman <malman@BBN.COM>
To: randyh@harksystems.com
Cc: qrp-1@Lehigh.EDU, klqrp@acpub.duke.edu, malman@BBN.COM
Subject: [23044] Re: KnightLite Net report - 7/13/97
Message-ID: <199707140327.XAA53833@nss2.CC.Lehigh.EDU>

Randy,

Re: the KnightLite Net report - 7/13/97

> Condx were better than usual

!! EXCUSE ME !!

Here in New England, 80 meters was clearly THE PITS tonight. Real bad QRN.
I could not copy anything....

Any chance we can move the net to 30 meters for the summer? Maybe forever?

/joel wa1qvm (malman@bbn.com ... Concord, Ma.)
WIMPS: Qs=202 30m=184 17m=17 12m=01 States=26/04/00 DX=052/12/01

Date: Sun, 13 Jul 1997 23:57:41 -0400
From: Randy Brace <k8zaa@CompuServe.COM>
To: Low Power Amateur Radio <qrp-1@Lehigh.EDU>

Subject: [23045] re:hb sprint
Message-ID: <199707132357_MC2-1ACA-9F22@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hi gang,
=

Only 16 QSO's here. The noise really bad. Sorry to the callers that I couldn't copy. Thanks N6GA for hanging in there. Cndx strange also. The only sig around 14.060 for awhile was JY5SX in Jordan. He was at 14.063 calling cq. Called him but no luck.

Stations worked were:

N4ROA
KP3S
K6QWH
K10J
K4NK
N6MM
KC4MHM
N4KZ
W5VBO
HP1AC
AA5EA
K9HD
KJ5MG
N6GA
KM3D
K5HQV

72, Randy XE1/K8ZAA

Date: Mon, 14 Jul 1997 00:17:49 -0400
From: Scott Bauer <ke3nv@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [23046] attn: Walt WA4KAC
Message-ID: <199707140417.AAA08448@smtp3.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Walt,

lost your email address, please reply.

Scott

Date: Mon, 14 Jul 1997 05:40:33 +0100
From: Brian Short <SHORTCKT@primenet.com>
To: QRP-1@Lehigh.EDU
Subject: [23047] Field Day Pictures
Message-ID: <3.0.1.32.19970714054033.00718910@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Field Day Pictures

Nearly every year, the Scottsdale Amateur Radio Club places in the top 2 or 3 in class 4a from Arizona in the annual June Field Day. (This is tougher from Arizona!)

Anyway, I now have pictures of this unbelievable operation on my web page: <http://www.qsl.net/k7on/sfd90/sfd90.htm>

Date: Sun, 13 Jul 97 20:52:21 HST
From: mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
To: qrp-1@Lehigh.EDU
Subject: [23048] strange 20
Message-ID: <9707140652.AA21710@krypton.nmr.Hawaii.Edu>

With the solar flux at rock bottom, I was surprised Sunday by being able to hear a 10 meter beacon from JA7 at 28.187 Mhz. Two hours of monitoring did not raise Midway on 28.480 USB however.

If anyone wants to listen, Midway might be up on 28.480 USB between 0000 Zulu and 0200 Zulu. Also a number of Hawaii hams might be monitoring during this same period on this frequency. There were some contacts reported on Saturday.

Noise and lack of signals marked the daylight hours, but 20 meters went crazy 10 minutes after sunset Sunday!

I worked a station near Kwajalein and was then called by a station near San Jose. Russians on SSB, lots of Austrailians, and plenty of 6's and 7's on the band, even some South Americans, plenty of Canadians, even a Yukon Territory. Noise just plumeted and signals so strong, bouncing my S-meter like crazy, that I swore they were local until they signed. The band just dropped from raging urban static and white noise to a nice black background and signals jumped out.

This is not the first time I have noticed a couple of hours of great performance from 20 meters just after sundown. Funny, however, there was not a single JA in sight on 20. Propogation seemed to be north, south and east. More like what you would expect in the morning.

It appears my latest antenna design is functional. I live in a condo with only a small concrete lanai and lots of house rules.

I have been working on an upright, self-supporting V design. It is now made of two Hustler whips which allows resonating elements. It has a center angle of about 120 degrees and is mounted on a concrete block. It is fed with RG58 coax and runs about 3:1 SWR due to proximity effects dragging down the feedpoint impedance. A tuner knocks that down the rest of the way. It meets all the house rules since it requires no attachment to the common elements. This latest design taking pains to resonate the elements and get as much SWR as possible off the feedline is a clear improvement. The center support is a couple of fittings from Radio Shack for CB whips and some huge war surplus ceramic standoffs that accept 1/4 inch threaded studs. They look like giant rabbit ears. I have resonators for them for 20, 17, 15 and 10 meters.

Mike Burger AH7R Honolulu County Grid: BL11ch QRP-L #1053
 FISTS #3225 ARS #240 "Under the Bee's ... 28"

Date: Sun, 13 Jul 1997 23:57:22 -0700 (PDT)
From: Jim W7LS <w7ls@brigadoon.com>
To: qrp-l@Lehigh.EDU
Subject: [23049] FT-707 for sale/swap
Message-ID: <199707140657.XAA17117@siskiyou.brigadoon.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi, gang. I have a Yaesu FT-707 for sale or swap. It is an 80-10 meter transceiver, 100 watts and can be cranked down to QRPp power, as I have been told. Not all HF rigs can go down that low in power. SSB/CW/AM.

It is small. Meant to be a mobile rig, I think. Digital readout.

Makes a nice HF QRP rig that can be cranked up into QRO if needed.
Condition: average. Not sparkling new and not banged up or scratched up very much. Medium.

I'm looking for \$400/obo or a used Index Labs QRP+. I can be reached here or on the horn at 425-788-9027 days, eves, weekends.

72/73 de Jim, W7LS

Date: Sat, 12 Jul 1997 16:49:59 -0500
From: dzn1@juno.com (Howard D Rubin)
To: gregemmy@lni.net
Cc: qrp-l@Lehigh.EDU
Subject: [23050] Re: QRP AField/Movie "Contact"
Message-ID: <19970714.064319.9878.0.dzn1@juno.com>

All,

I saw the movie last night and give it all thumbs up! This movie was made for us: it opens with a ham radio operator, stays at a highly technical level and provides genuine light-show quality entertainment all throughout. I've seen some lackluster reviews on it in the media, but not by anyone in the technical community.

Regards, Howard N3FEL

On Sat, 12 Jul 1997 15:36:41 +0000 Greg Emerson <gregemmy@lni.net> writes:
>>PS Anyone notice the KWM-2 and bug in the movie "Contact"? That was
>"s e"
>>morse coming from the audio.
>
>Sure did. Anyone know who's call sign they were using? Seems it was
>W9GF0 or something like that. Great movie, I highly recommend it.
>
>Greg WG8N
>
>

Date: Mon, 14 Jul 1997 07:17:04 -0400
From: n1pwu@juno.com (Robert K Berlyn)
To: QRP-L@Lehigh.EDU

Subject: [23051] Data Book fro QRP'ers

Message-ID: <19970714.071706.3430.0.N1PWU@juno.com>

On Fri, 11 Jul 1997 14:17:26 -0400 Tom Bowman <tbowman@nbn.net> writes:

> One more thing: Paul Harden, NA5N's Data Book for Homebrewers
>and QRPers
>makes shopping for parts - then identifying them - easy. I've come to
>rely
>on it more and more.
>I'm not sure where the book is sold now, but check with Paul, he's on
>the
>list.....

HB Electronics is an authorized reseller of Pauls book (that means Paul knows and approves) , for the same great price of \$ 20.00

I also carry lots of good stuff for home brewing

Bob

HB Electronics

N1PWU

QRP-L # 161

NE-QRP # 226

East Greenwich, RI

[HTTP://www.businesson.com/HAMPARTS](http://www.businesson.com/HAMPARTS)

E-Mail : HB.Electronics@Businesson.com

Date: Mon, 14 Jul 1997 12:19:01 +0100

From: Rogerio Gonzaga <gonzaga@med.up.pt>

To: qrp-l@Lehigh.EDU

Cc: gqrp-l@blacksheep.org

Subject: [23052] The oldie but goodie double Marconi antenna

Message-ID: <199707141119.MAA04660@mail.med.up.pt>

Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Hi, folks,

As I intend to be OH/CT1ETT/P/QRP next week, and I always had problems with non-functioning aerials at the Hotel rooms, I decided to revive an old solution - the folded Marconi.

I have bought an extensible fishing rod (abt 3.6 meters), and constructed the folded Marconi with 300 ohms TV line (very hard to find in CT1', but I had bought a reserve in Frisco, tks to Dave, W6EMD). Correcting for the

conduction velocity, I have cut it with about 4.25 meters, to cover the 20 meters band, shorting the distal end and connecting the proximal one to the PL connector. As the different working conditions would probably untune the aerial, I have fed it through one of those small MFJ long-wire tuners, to which I had already adapted a 5.5 meters wire radial. To support the rod I have adapted an old lamp support, to fix it to a table, window or the like.

I have tested the antenna in my garden, fixing it to a small wall (about 70 cm), with the radial among the flowers and the aerial rod slooping directelly to my house, completelly burried between the three floors building and trees. This set-up has been idealized to match the poor working condx I expect while in /P.

...an SP9 station has answered at the first call of my MFJ9020, running less than 4 watts as I was powering it with a gell cell batery. I think it is promising, isn=B4t it?

Try it please...

Best 72/73 de Roger, CT1ETT

Rogério A. F. Gonzaga, MD, PhD
Surgical Professor at the Faculdade de Medicina do Porto - Portugal
Ex-Honorary Surgical Registrar at the Hammersmith Hospital - London, UK

Radio Amateur CT1ETT QTH Loc IN51re
G-QRP Club # 8673 ISWL # CT-20574 QRP-L #516 NorCal QRP Club # 2130

Date: Mon, 14 Jul 1997 07:22:12 EDT
From: n4so@juno.com
To: qrp-1@Lehigh.EDU
Subject: [23053] Very Low Power/SCS PTC-II
Message-ID: <19970714.072103.5215.12.N4S0@juno.com>

The Pactor-II- Mode
(Sold by Pin Oak Technical and called the SCS PTC-II)

The digital mode called Pactor II can copy signals and maintain a link at very low levels.

The ad in QST says "maintains links in conditions with a signal to noise ratio down to minus 18 db!"

1. It will maintain a link on a signal that you can not hear.
2. It will maintain a link and send data on unmeasurable power levels (where the power meter is sitting on 0, but some minute signal is getting through.)
3. On a good path, 3 or 4 element beams on both ends, the carrier control can be turned ALL THE WAY down and yes, the link will be marginal but will still send data after several repeats (it fills in parts or gaps that it misses to complete a data line)

The Pactor I Mode is almost as good and has been verified to maintain a link and send at least a complete data line.

Ken Brown , N4SO
QTH: Nr Mobile, AL
QRP-L #622
n4so@juno.com
EM50tk

Date: Mon, 14 Jul 1997 08:22:28 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [23054] QRP Summer Contest
Message-ID: <19970714.200343.4327.0.n4so@juno.com>

Sponsored by the German group AGCW-DL.
1500z July 19 to 1500z July 20.

Send RST and serial number.

The Germans use a system of VLP for less than 1 watt,
QRP for less than 5 watts, MP for less than 25 watts, and
QRO for greater than 25 watts.
N4SO/VLP

Ken Brown, N4SO
QTH nr Mobile, AL
qrp-1 #622
n4so@juno.com
EM50tk

Date: Mon, 14 Jul 1997 08:33:05 -0400 (EDT)
From: "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
To: qrp-1@Lehigh.EDU
Subject: [23055] HB Sprint
Message-ID: <Pine.A32.3.93.970714082811.33120A-1000000@weyl.math.Virginia.EDU>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With the OHR Classic on the bench for repairs, I decided to do a single band 80m sprint, using the Centennial on CW. The NE602 vfo drifts too much for CW ragchewing, but it's OK for contesting (used it on FD). Worked all the stations I heard, which was 7 in the five states of VA, MD, NY, NJ and IN.

72, Ralph N7RI
Charlottesville VA

Date: Mon, 14 Jul 1997 08:38:30 -0400 (EDT)
From: Stephan Greene <sgreene@washsq.com>
To: William K Hibbert <wb2vuo@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [23056] Re: Mars Lander to Rover QRP
Message-ID: <Pine.LNX.3.95.970714082328.24833A-1000000@europa.washsq.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 13 Jul 1997, William K Hibbert wrote:

> >Just heard an interesting comment on Headline News Network about the
> communications >from the Mars Lander to the Rover being a modified Radio
> Shack Business "Radio" >(Family or Business HT on 450? Maybe even some
> sort of packet controller?). Leave it to >a Ham! Anyone got big ears
> other than Paul, NA5N. Might be some interesting listening.

Doubt they're using business band or anything from Rat Shack, but a UHF FM link running 9600 bps G3RUH packet is a good possibility. Read on... And while the lander-earth link is a bit too Qrppppppp....ppppp for amateurs, there WAS a successful test involving amateurs of the radio links during Pathfinder's trip to Mars, see Amsat Journal for the write-up.

> >From what was said on NPR's "Talk of the Nation, Science Friday", the
> rover "talks" to the lander using a DARPA-developed data format called
> "X-25", at 9600 bits/second. "Time" this last week stated that the rover
> runs data at a very slow 9600 BpS...
>
> Sounds like a 450 Mhz UHF HT, and a Paccom "PicoPacket" at 9K6 packet, or
> similar, to me.

I do not KNOW for CERTAIN, but I can make an educated guess that the Rover-Lander link *IS* 9600 bps G3RUH-style packet. Several years ago, I was associated with the company that built the Eyesat-1/AO-27 satellite. I recall that we had lengthy discussions with JPL about building a pair of high-efficiency UHF fixed-frequency FM transmitters and receivers suitable for 9600 baud FM. The transmitters would have likely been based on the flight-proven design used in the AMSAT Microsats. I don't recall what we planned to do about the receivers, if we were going to do them at all. Nothing ultimately came of it (pity), but it was an interesting tangent to the main satellite effort.

JPL wanted something with some flight history behind it that was inexpensive by NASA standards and WORKED. While 9600 bps AX.25 is too slow for video, it is plenty fast for digitized stills and telemetry data (just think - no competition for the channel, no interference from pagers, and a nice line-of-sight path).

My assumption is that JPL either did it themselves or bought/ruggedized commercial hardware. I'm hoping the info will eventually show up on the Mars Pathfinder web site.

And as I told my wife when JPL experienced the initial comm link problems between the lander and rover, if things had worked out differently, the July 4th weekend would have been VERY hectic for us!

72 & 73, Steve KA1LM

Stephan A. Greene sgreene@washesq.com
PGP Public Key 0xB96717F5 1996/10/01 at <http://ww2.washesq.com/~sgreene/>

Date: Mon, 14 Jul 1997 08:47:15 EDT
From: wa5whn@juno.com
To: qrp-1@Lehigh.EDU
Cc: w5bi@flash.net, johnmb@mindspring.com, n5oqj@juno.com, k5qq@aol.com, dandj@nmia.com, pharden@aoc.nrao.edu, djf@swcp.com
Subject: [23057] QRP AField, Sept. 20, 1997
Message-ID: <19970714.064732.6695.0.wa5whn@juno.com>

qrp-1ers,

For the New England QRP AField, scheduled for Sept. 20, 1997, according to W1CSB, a few of us will sneak back down to the site, mentioned in the following URL;

<http://members.aol.com/JayMiller/index.html>

and for a limited return engagement, we will set up at that site, to work QRP stations, during the "QRP AField" event. There will be certificates. Numerous QRP stations had sent us email, complaining that they could not get through during the July 4th weekend. Well, round 2, same certificate, different date. This will be only for the QRP contest. Chances are we will be on 20 & 40 meters around the QRP calling frequencies (7.040 MHz & 14.059 MHz). Might even listen on 21.060 MHz too.

Oh, and we did not work any New Mexico Stations. We had heard about that, on the return home, many times. You may not believe this, but we did not work many Calif. stations either.

Using my SST (20 meter version), with the narrow cw filter, I would not have been able to sort out some of the calls. We had a video camera with us. I had just replayed the tape, and it's very interesting to listen to the pile ups, because we still could not make out the calls. Essentially, a S-9+ noise level of voices.

Remember, QRP only, this will not be a Special Event Station, Been_There_Done_That, we will be hunting QRP contacts for the New England QRP Club's "QRP AField". Certificates will be available. There will probably be just the 2 of us (WA5WHN & W5BI), at this site. Remember, contact W1CSB for the details about the New England "QRP AField" on Sept. 20th, but, round 2, if You had missed our July 4th Special Event Station, near Roswell, NM.

We're back... ;-) Offer void were prohibited by law. ;-)

72...Jay, WA5WHN DM65qd

Date: Mon, 14 Jul 1997 08:51:10 -0400
From: Peter_Simpson@3com.com
To: qrp-1@Lehigh.EDU
Subject: [23058] Mars Lander to Rover QRP
Message-ID: <852564D4.00459EFA.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

They're using a modified Motorola/DataRadio Radio Modems on 459.7 Mhz.
Power out is 100 mW. Details (more than you would ever need)
are at <<http://mars.sgi.com/rovercom/rovcom.html>>

These guys have to be hams! They built the neatest gadget using
off-the-shelf components modified to do the job. Check out the
control processor, too. 8085 based. Neat, and IT WORKS!

Peter, KA1AXY

Date: Mon, 14 Jul 1997 09:07:19 EDT
From: dwink@juno.com (Daniel C Winkler)
To: qrp-1@Lehigh.EDU
Subject: [23059] Re: 49Mhz to 6Meters conversion?
Message-ID: <19970714.061125.10191.0.DWink@juno.com>

Hi Gang,

>Radio Shack ...selling a 49Mhz walkie-talkie for about \$5.
>... any plans fo modifying these to work on 6 meters?
>... cw built-in...

I don't think these are the same units Dana spoke of in his

post (7-9-97) ...(YES, I am that far behind on my mail!).

I have a pair of similar units from RS from a year ago.

ARCHER SPACE PATROL Model No 60-4020

I got curious, so I just now took one apart.

Plastic case 6 x 2.5 x 1.5 inches w/ 9v battery compartment...

case held together by single screw and a little gum (really).

Well, there are little plastic fingers to help.

PC board held in place by another single screw. Speaker is

glued in. Antenna is a 9" ducky... looks like it is a 9" length
of door spring with shrink wrap over most of it!

There are:

- 3 transistors

- 1 transformer

- 3 switches (sorta...if you count a piece of tin can bent up over but not quite

- touching a longish rivet a switch!)(that's the "key")

- 13 resistors

- 8 ceramic capacitors

- 3 electrolytics

- 2 coils (To quote one of the masters {the good Rev.}{you gotta read this

- with a British accent!} "...look inside the radio, and if it has a lot of coils, then

- you know it is a good radio.")

- 1 crystal

- 1 pc board 3.5 x 2 inches, with .75 inch hole in it (for speaker)

These things are AM modulated crystal oscillators. The receiver is a super-regen, and you wouldn't believe the RUSH it gives out on receive. There is no volume control, only on/off. The "cw" is mcw, achieved by introducing feedback into the audio amp.

THERE IS NO MICROCOMPUTER IN THIS RADIO!!!

It is about as minimalist as you can get and be voice. It does work. Range abt 1/4 mile (I can shout as far).

I, too, bought them with 6m conversion in mind, but after looking them over, I decided it would be better to start from scratch.

However, look at it another way. For \$5 you get a door spring.

And an ok case with battery compartment. And a little speaker

built in (VERY built in). And a crystal (49.860). And a transformer.

The rest of the parts are probably not worth saving.

So you could keep the crystal and use it for the X0 for a superhet (it's an overtone xtal, so it won't warp much- not much of a VX0- you are stuck on one frequency!) with a 455 kHz IF (use one of those Murrata ceramic filters from Digikey or Mouser)- puts you at 50.315. Buy a crystal for 50.315. (About \$15) Run AM (you are above 50.1, so anything goes, as far as FCC is concerned...)

With a little work you could stuff it all back into that case...

A lotta work for little return, I think. But the parts are probably worth close to that \$5 price, *if* you can use them.

Dan Winkler N7IVR Seattle WA

Date: Mon, 14 Jul 1997 09:13:34 -0400
From: Peter_Simpson@3com.com
To: qrp-1@Lehigh.EDU
Subject: [23060] Mars Lander to Rover comms
Message-ID: <852564D4.004898E0.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

They're using modified Motorola/DataRadio Radio Modems on 459.7 Mhz. Power out is 100 mW. Details (more than you would ever need) are at <<http://mars.sgi.com/rovercom/rovcom.html>> These guys have to be hams! They built the neatest gadget using off-the-shelf components modified to do the job. Check out the control processor, too. 8085 based. Neat, and IT WORKS!
Peter, KA1AXY

Date: Mon, 14 Jul 1997 10:17:53 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-1@Lehigh.EDU>

Subject: [23061] Re: QRP @ 75W
Message-ID: <Pine.LNX.3.93.970714101529.782D-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 14 Jul 1997, Hank Kohl wrote:

> QRPp <1W
> QRP <5W
> QRPo <50W
> QRO >50W
> QROO >1500W

Would that last one be pronounced, QR-uh-oh? As in, Uh Oh... my tuner melted :)

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV QRP WAS 17/9 (w/c) | ccart@erols.com --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --

Date: Mon, 14 Jul 1997 10:14:53 -0400 (EDT)
From: N2QCE@aol.com
To: qrp-l@Lehigh.EDU
Subject: [23062] Re: New Callsign
Message-ID: <970714101440_-1359955421@emout13.mail.aol.com>

In a message dated 97-07-13 11:27:42 EDT, you write:

> On Sat, 12 July 1997, John A. Evans wrote:
> I'd like to introduce myself as N0HJ, former N3Q00.

FB Nhoj, I mean John. Nhoj Snave is the character in a book I'm writing. His middle name is Leahcim, however. Best 73 de Nhoj Leahcim Snave ECQ2N, I mean N2QCE...

John M. Evans N2QCE
E-mail n2qce@aol.com
<http://www.islandlink.com/n2qce>

Date: Mon, 14 Jul 1997 13:38:02 GMT
From: k8cv@juno.com (Walter D Amos)
To: n4xy@bellsouth.net
Cc: qrp-1@Lehigh.EDU
Subject: [23063] Re: 75W Category Proposal
Message-ID: <19970714.142314.9414.1.k8cv@juno.com>

Hi Ed:

I think qrp is qrp and you will water it down with 75 watts having any kind of qrp tag. I have operated for years with my 100 w radio in contest and find that with GOOD antennas I can work just about anyone I call. In my qrp (5 watt) operation I hear many guys in the qrp activity contests that are VERY weak and I can NOT work them. Using these 25 dollar kit radios that put out 200 mw is fun but not really communicating. I think at the present time increasing the power will kill the bottom of the qrp bunch that are new squeaky voiced kids with there sst rigs and 38s stuff. At 5 watts the playing field is some what level but if you inject 75 watt big signals onto 7.040 I think the milla watters will dry up and blow away in the wind :-))

BTW: I also have an ALPHA that is gathering a lot of dust bunnies lately.....

Walt K8CV

We're just a small sub-group of an eclectic corner of a dying hobby.....

Date: Mon, 14 Jul 1997 08:55:55 -0600 (MDT)
From: bcutter@teal.csn.net (Bob Cutter)
To: qrp-1@Lehigh.EDU
Subject: [23064] BuzzNot noise blanker
Message-ID: <199707141455.IAA06481@ns-1.csn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I cannot say enough about the BuzzNot noise blanker. I installed it in my SST on 20M and it does an amazing job on my electrical noise.

Another great design from Wayne and available from Wilderness Radio.

72, Bob KI0G

Date: Mon, 14 Jul 1997 11:18:22 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-1@Lehigh.EDU>
Subject: [23065] Laurel Show and Tell 5-JUL-97
Message-ID: <Pine.LNX.3.93.970714111054.1115A-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I know this report is late, but better late than never I suppose. This was my very first QRP Show and Tell and I have to say that I'll definitely be finding my way there again. Any group meeting with a bunch of QRP'ers stimulates the interest and recharges the batteries in a number of ways. You get to see that you aren't the only one, putting lots of hours in, on the projects that make this hobby so much fun. And as always, it's an overall great learning experience.

Some in the group are good at operating, others specialize in construction, and someone there is bound to have made a mistake you are about to make. So whether your on the East Coast, West Coast, or somewhere in the middle, get together with a group, be informal, have a good time. Most of us have a enough pressure in our "real" lives, get out there and have some fun! <soapbox off>

Hopefully all the pictures will be on a Homepage soon, most of the page has been put together, just have to figure out how to make the jpg's smaller so they aren't wider than the screen:) MD Milliwatters, I am working on it!

As this was my first S&T I'm not sure if attendance was good or not. There were about half a dozen of us that hung out most of the day, and several that wandered by, looking at the toys. One of the nice things about having this type of event in front of an Amateur Radio Store, is that there is a whole lot less explaining to do. Most people can figure out that you're hams, and that what's going on might just be something they're interested in.

The S&T was held on July 5, 1997 in the parking lot of Maryland Radio Center from 10AM until about 2PM. And as Mike put it, it was "Chaos and QRP". The souls that were brave enough to put their call a sheet of paper admitting they were there are:

KD3S	- Jim Reid	N3XRV	- Chris Cartwright
WD3P	- Larry Cahoon	WA8MCQ	- Mike Czuhajewski
WA4KAC	- Walt Thomas	W3EDZ	- Bill Massey

I got there about 11:00 and things were pretty much in full swing. Mike had covered the hood of his car with a blanket, and that became the table, operating position, and focal point of the event. Behind Mike's car was the "tailgating area". Several people brought freebees, there were meters, cabinets, cases, power supplies, and some 460 Mhz TX boards. Most of it was gone by the end of the day. I know Mike was happy for all the new room in the trunk!

Walt brought his SST 40M and an EXTREMELY well built homebrew tuner. The tuner allowed us to use the dipole on MRC's roof to play with all the rigs. If you get a chance to see this tuner, take a look. I have an OHR Explorer II that Walt built, and the workmanship is second to none.

Mike brought a 300mW 20M SSB rig bulit by Hal Bower WA5JAY, and a 4040 with a built in MFJ Tuner. I think Walt had the 4040 on the air through his tuner. Mike also had some batteries, keys and such around. It's tough to remember all the stuff that as spread out on the hood of the car.

Chris had an SST 30 along, and although it "didn't work" Walt managed to get a 449 and 589 out of North Carolina with it. One of the QSO's was with WB3GCK Craig, from the QRP-L list, who was on vacation. Chris later got his first QSO on the SST with KK5PY/M on Rte 66 near Tulsa. Not bad for a little one watt rig.

Several of us wandered in and out of MRC while we were there, and I'd like to thank them for letting us fill up their parking lot for the day. The MD Milliwatts have been "around" for the past nine years, or so I'm told. Due to the strict application of fun, chaos, and QRP, it tough to pin down who or how many MD Milliwatts there are. The meetings used to be held indoors at the old MRC, but since moving to smaller quarters, the events have to be held outside. Not bad, but I suppose in foul weather the attendance would be down.

Hope to see you there next time. I know I'll be there...

```
-- Chris Cartwright,   Technical Engineer |      ccart@vidtel.com      --
-- N3XRV               QRP WAS 17/9 (w/c) |      ccart@erols.com      --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #????? | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --
```

Date: Mon, 14 Jul 1997 11:25:26 EDT
From: tahrens1@juno.com (Tim H. Ahrens)

To: adams@chuck.dallas.sgi.com
Cc: qrp-1@Lehigh.EDU
Subject: [23066] Re: Straight Key Stuff
Message-ID: <19970713.102808.13567.2.tahrens1@juno.com>

>A couple of hints-and-kints for Paul NA5N and the group. Paul likes
>to use plastic milk cartons for dials on rigs.

Hey Paul/Chuck... doesn't that make your rigs look funny? :-} hehe

cuall

Tim W5FN

Date: Mon, 14 Jul 1997 16:54:22 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-1@Lehigh.EDU
Subject: [23067] Re: Milk Cartons
Message-ID: <199707141554.QAA03432@chuck.dallas.sgi.com>

OK Tim W5FN, :-)

Well, it gives us much more room to work in than an Altoids Tin.

In fact we can say we are running a full gallon and not be lying even
at less than 5W. :-)

Everyone else knew that I meant to say "parts of a plastic milk container".
:-) ;:-)

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/>
<http://reality.sgi.com/adams/code.html> -- online Morse Code course
WIMPS: Qs=043 30m=32 17m=5 12m=0 States=23/05/00 DX=03/00/00 QSLs=015

Date: Mon, 14 Jul 1997 09:02:51 -0700

From: Bill Todd <bill@techline.com>
To: dwink@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [23068] Re: 49Mhz to 6Meters conversion?
Message-ID: <1.5.4.32.19970714160251.006ca7c8@mail.techline.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:07 AM 7/14/97 EDT, you wrote:

>Hi Gang,
>
>>Radio Shack ...selling a 49Mhz walkie-talkie for about \$5.
>>... any plans fo modifying these to work on 6 meters?
>>... cw built-in...

Hi Dan - I have thought of doing such a thing myself from time to time.

I own a pair of DSI 49 Mhz walkie talkies that are made to look like a Motorola "Flip Phone". To send out CW, you just push the key pad (the whole things moves in and out). You are right about the "rush" of audio when you turn this little puppy on.

The only hang up in the modification is the \$15 crystal. I wonder if there is a source for a really CHEAP crystal that would do the job.
Any ideas?

BCNU,
CUL, Bill-N7MFB
<http://www.techline.com/~bill>

Date: Mon, 14 Jul 97 09:08:24 -0700
From: Russ Carpenter <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [23069] ARCI Homebrew in Duckland
Message-ID: <199707141608.JAA06953@guppy.pond.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

The ARCI home brew contest in Oregon got off to a quiet start, but got pretty lively by mid afternoon. It was a thrill to hear so many homebrew signals on the air. Our hobby is clearly moving in positive directions,

thanks to the generosity and creativity of its practitioners.

When I turned on my Sierra at 1:00 PDT, I thought the receiver had croaked. No signals at all on 40 meters, and just a few whispery little things on 20. Turned out it was just the usual mid-day absorption levels at work. Several hours later, 20 had picked up, and by the end of the contest a few 40 meter signals were making their way through. The secret to life during summer afternoons on the West Coast will be 15 meters, when it finally regains its vigor. I ended up with 63 Qs and 34 SPCs.

The antennas here are a strange mixture of great and awful. On paper, they sound fine. Stacked tribanders at 80 and 50 feet and a bisquare for 40 meters, at 90 feet. It's the environment that's grim. We're surrounded by steep canyon walls, 2,000 feet tall. And the antennas are all mounted in trees, which are themselves in a dense forest of Douglas firs. Overall, they seem to work--but it's more fun to be on a mountain top.

My commendations to Cam Hartford and the ARCI.

Russ Carpenter, AA7QU
McKenzie River, Oregon

Date: Mon, 14 Jul 97 09:13:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU

>From: k5zty@juno.com (WILLIAM A STIETENROTH)
>I haven't seen anything from our resident antenna gurus, Cecil
>and L.B., on this one.

Hi Bill, I'm not an antenna guru, just a guy who remembers what my Elmer taught me 45 years ago which had primarily to do with balanced transmission lines and doesn't usually apply to vertical antennas. And I've lost every argument with L.B. except one ended in a draw. :-) I don't learn anything except when I'm wrong.

>The basic function of radials on a ground mounted vertical is to
>provide a low- loss path for ground currents...

I agree with everything you said. It takes more than 100 radials to get optimum performance out of a *ground-mounted* vertical and the longer the radials, the better. Salt water is the best radial system and I haven't seen anyone divide salt water into 1/4 Wls.

How many radials do you suppose an AM broadcasting station uses?

If one has interference coming from one direction, removing the radials in that direction will attenuate the interference as well as the transmitted signal because the ground currents in that direction are forced to flow through lossy earth.

There's an article in the spring "Communications Quarterly" that raises some questions about unbalanced currents in 1/4 WL elevated radials - interesting reading.

73, Cecil, W6RCA, OOTC

Date: Mon, 14 Jul 1997 08:53:05 -0600
From: Brad Mugleston <bmug@gw1.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>
Subject: [23071] Looking for Floyd - NQ7X
Message-ID: <01BC9033.590BAB00@pps-pc10.gw1.com>
Content-Type: text

Floyd,

Got your card - need your email address - I have questions.

Brad, KB0ROL

Date: Mon, 14 Jul 97 09:26:00 PDT
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
To: qrp-1@Lehigh.EDU
Subject: [23072] Re: Antenna loading coils

Date: Sat, 12 Jul 1997 21:03:17 -0600
From: Jess Gypin <jessqrp@concentric.net>
>To: qrp-1@Lehigh.EDU
>what is the best way to calculate the amount of wire needed on
>the coil and spacing and length of wire for the coil. Jess NOTFI

Hi Jess, IMO, the best way is to spring for a copy of EZNEC and model it. EZNEC will allow one to position the coil reactance anywhere in the system and see the result in field strength,

take-off-angle, feedpoint impedance, etc. ELNEC and EZNEC have saved me literally thousands of dollars in time that would have been lost to dead-end ideas. I am nothing more or less than a super satisfied customer of w7el@teleport.com

73, Cecil, W6RCA, OOTC

Date: Mon, 14 Jul 1997 11:36:36 -0500 (CDT)
From: "Jeff M. Gold" <JMG@tntech.edu>
To: qrp-1@Lehigh.EDU
Subject: [23073] QRP++ front end overload
Message-ID: <01IL84NCBHHE8WWDK7@tntech.edu>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

I have heard mention of a modification to the QRP++ to make it so that the receiver doesn't get overloaded. Lately my QRP++ seems to be really overloaded.. .thinking it needs therapy.

Help will be appreciated.

72
Jeff, AC4HF

Date: Mon, 14 Jul 1997 16:28:59 +0100
From: Brian Short <SHORTCKT@primenet.com>
To: bmug@gwl.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [23074] Re: Looking for Floyd - NQ7X
Message-ID: <3.0.1.32.19970714162859.006d744c@mailhost.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I happen to know that he has a web page:
<http://www.qsl.net/k7on/nq7x/floyd.htm>

It has an email button.

>Floyd,
>
>Got your card - need your email address - I have questions.
>

>Brad, KB0ROL

Date: Mon, 14 Jul 1997 14:51:46 EDT
From: n4so@juno.com
To: qrp-1@Lehigh.EDU
Subject: [23075] Mars Rover Communications
Message-ID: <19970714.144927.5223.2.N4SO@juno.com>

A copy of the text file on the Mars Rover Telecommunications is here at
n4so@juno.com

The text file is about 18,000 bytes long and discusses the history and
details
of the radios onboard the Rover.

File is called JPL.txt

Ken Brown , N4SO
QTH: Nr Mobile, AL
QRP-L #622
n4so@juno.com
EM50tk

Date: Mon, 14 Jul 1997 20:36:47 +0100
From: Goran Hosinsky <rodriguez@jet.es>
To: qrp-1@Lehigh.EDU
Subject: [23076] re Antenna loading coils / EZnec
Message-ID: <1.5.4.32.19970714193647.00689dcc@jet.es>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Subject: Re: Antenna loading coils

>

>>model it. EZNEC will allow one to position the coil reactance

Yes, you can put a coil where you like to but using a long helical coil,
how do you model that? Example a helical wound vertical or the St Luis Special.

Saludos
Goran ea8yu

Date: Mon, 14 Jul 1997 15:08:33 -0500 (CDT)
From: Bill Howell <bhowell@mail.utexas.edu>
To: qrp-1@Lehigh.EDU
Subject: [23077] Re: Movie CONTACT
Message-ID: <199707142008.PAA07454@mail.utexas.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This is the best movie I've seen in a long time. The ham scenes at the beginning really captured the excitement of radio communication. Besides the HR aspect of the film, it was just a darn good movie.
I recommend it.

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance
voice 512.471.1388
bhowell@mail.utexas.edu
N5ALO QRP-L #415

belief preceeds experience

Date: Mon, 14 Jul 1997 16:58:32 -0400
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: Paul Erickson <paul1@wizard.ucs.sfu.ca>
Cc: qrp-1@Lehigh.EDU
Subject: [23078] Re: 38S: filter xtal question
Message-ID: <3.0.1.16.19970714165832.16cf5924@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 06:30 PM 7/6/97 -0700, Paul Erickson, VE7CQK wrote:

>Hi Jim,

>

>I would appreciate the information. I'm waiting for 10 of the 520-hca1200-s
>to arrive from Mouser. I think the notice I just got from the postoffice

>is them, so hope to have them tomorrow.

>

>cheers, Paul

>VE7CQK

>email: paul1@wizard.ucs.sfu.ca

Hi Paul...sorry for the delay. Too busy designing and building a 38S for 17 meters. Its working nicely on receive, and the Tx section is working through the first stage transistor. Good stuff.....

The details on the "new" filter for the 38S are as follows:

The transformer was changed to the following:

Primary: 23 turns on T37-2 toroid

Capacitor: 68pF across the primary winding for tuning

Secondary: 3 turns, wound in same direction as primary,
on the cold (grounded) end

The remainder of the filter should be built as follows:

1st Series Cap: 180pF

1st Xtal: ECS 12.0MHz series resonant (Mouser 520-HCA1200-S

1st Parallel Cap: 330pF

2nd Xtal: Same as above, match within ~50 Hz

2nd Parallel Cap: 180pF

Nominal bandwidth is 400-500 Hz with my measurement setup.

Sorry again about the mistake in the original 38S article. Goes to prove I'm human too I guess! :-)

Let me know how it works for you.

72....Jim

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@mci2000.com		__o H.F. bicycle mobile
Fenton, MI		_`<, Mizuho 17/40 SSB
...		(*)/(*)
NorCal 38S Log - 34 States;		40 Countries - Running 3 watts
Most recent - Iowa		Mauritius

Date: Mon, 14 Jul 1997 17:07:02 -0400
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: rodriguez@jet.es
Cc: qrp-l@Lehigh.EDU
Subject: [23079] Re: re Antenna loading coils / EZnec
Message-ID: <3.0.1.16.19970714170702.16cf8f0e@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 08:36 PM 7/14/97 +0100, you wrote:

>>Subject: Re: Antenna loading coils

>>

>>>model it. EZNEC will allow one to position the coil reactance

>

>Yes, you can put a coil where you like to but using a long helical coil,
>how do you model that? Example a helical wound vertical or the St Luis
Special.

>

>Saludos

>Goran ea8yu

>

Goran and Gang....I've modelled helically wound antennas by breaking the
coil into several small inductors spaced along the length they
would physically be on the antenna. Don't know whether it is
a valid approach, but it seemed logical, and the EZNEC results
look very plausible.

That's the method I used on the various bicycle mobile antenna
designs that I showed at Dayton last year.

Comments??

72.....Jim

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@mci2000.com		__o H.F. bicycle mobile
Fenton, MI		_'\<, Mizuho 17/40 SSB
...		(*)/(*)
NorCal 38S Log - 34 States;		40 Countries - Running 3 watts
Most recent - Iowa		Mauritius

Date: Mon, 14 Jul 1997 14:35:52 -0700

From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23080] Re: ARCI Summer HB Sprint
Message-ID: <33CA9BB8.60D@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

About the member number issue: I'm very sorry about those who worked me, we6w and I gave power output. Don't know my ARCI Number still.

Some of you remember my attempt to get my ARCI/NORCAL etc. numbers a few months back. Got the Norcal but got to wait for an issue of QRPQ for the ARCI.

I got nothing heard on 80 and 15 Meters.

Quick Summary:

40 Meters AA7QU, K6YN, AB7TT

20 Meters:AB7TT, K6QWH, K9HD, KJ5MG, N7GS

Note: Thanks to N7GA for many repeats but QSB/QRN kept hitting at the wrong time. Always got his 549 report repeats but ARCI number killed everytime by QRN/QRM/QSB.

K6Yn was the only QRO at 50 Watts. We Had a nice 20 minute rag chew since 40 was so quiet.

I hope WE6W sounded better with the keyer on 20 meters than the straight key on 40 -- hi, hi. Joe knows, he's my only double contact. AB7TT.

Tks all fer a nice contest!

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.

QRP-L#1068/Norcal#2227/ARS#275/ARCI#???? grid CM88ok

mailto:we6w@qsl.net <http://www.qsl.net/we6w>

Date: Mon, 14 Jul 1997 18:04:14 EDT
From: kd4kzq@juno.com (Jim A Norsworthy)
To: qrp-l@Lehigh.EDU
Subject: [23081] RS \$5 HT's

Message-ID: <19970714.170217.7463.1.kd4kzq@juno.com>

Hi Gang,

I have very alterior motives on this one. My 4 year-old twin boys want some radios for their birthday. They already CQ into any mike that they get a hold of, since our last year's vacation to Panama City, FL. I have to keep the 2M in the truck turned off when they are with me or they think that they should be calling DX, I think it was something that they heard me say into the 10M mobile that I had borrowed for the FL. trip.

Now for the punch line. What is the model number of these \$5 talkies and I could probably buy a spare pair so they will have back-up's.

TNX,
72/73 es CUL de Jim KD4KZQ
kd4kzq@juno.com
QRP-L#1060 10-10#66171
"Less is really MORE" think about it

Date: Mon, 14 Jul 1997 15:32:41 -0700 (PDT)
From: "Allan G. Taylor" <ataylor@heracles.llnl.gov>
To: qrp-l@Lehigh.EDU
Subject: [23082] EMTECH NW-40 repair finale: THANKS, GANG!
Message-ID: <199707142232.PAA17557@heracles.llnl.gov>

Last week I asked for help from the QRP-L gang to check out an apparently nonfunctional NW40 EMTECH rig that I had recently sold/shipped to Doc, K0EVZ. I suspected, since it didn't immediately work when Doc got it, that some unknown thing had happened to it after shipping originally to me from K6AEC or from my QTH to Doc. I was not able to get it on the air due to other commitments and finally sold it to reduce inventory and increase liquid assets.

Several offers were received from QRP-Lers to look at it including one from Bob, K6AEC, who was gracious enough to look into the rig for us. As there was no doubt that it worked when it left his QTH, his offer was particularly gracious!

As it turns out, the trouble was apparently in a power connector at Doc's end. The rig works just fine and this episode is coming rapidly to a conclusion.

THANKS, GANG, for the offers of help and also for previous help in locating

this rig and the NorCal40A which is coming to my QTH soon. As my QRP work is strictly for backpacking use, the NC40A should be great for my needs.

Grant K7GT email best to k7gt@qsl.net

Pleasanton CA.....(meetingplace of the amorphous NorCal QRP Club)
Grid loc CM97aq
a cw fanatic since 1958 and a QRPer when backpacking

see my webpage at <http://www.qsl.net/k7gt>

Date: Mon, 14 Jul 1997 16:43:57 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@Lehigh.EDU
Cc: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [23083] RE: QRP++ front end overload
Message-ID: <2.2.16.19970714224357.085f24d2@eloi>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From a recent post by Jeff, AC4HF:

>I have heard mention of a modification to the QRP++ to make it so
>that the receiver doesn't get overloaded. Lately my QRP++ seems to
>be really overloaded.. .thinking it needs therapy.
>

I doubt very seriously if the "front end" is overloading. The problem is most likely the IF limiter -- this causes real problems when the SCAF is set narrower than the IF bandpass and a strong signal is within the IF bandpass but not the SCAF bandpass. The result is similar to "overloading", but is really due to the strong signal activating the IF limiter. See my article in the July issue of the QRP Quarterly.

72, Larry W1HUE/7

Date: Mon, 14 Jul 1997 18:55:19 -0400 (EDT)

From: n4js@amsat.org
To: <(Walter D Amos) k8cv@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [23084] Re: 75W Category Proposal
Message-ID: <XFMail.970714185859.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

On 14-Jul-97 Walter D Amos typed:

>Hi Ed:

>

>I think qrp is qrp and you will water it down with 75 watts having any
>kind of qrp tag. I have operated for years with my 100 w radio in contest
>and find that with GOOD antennas I can work just about anyone I call. In
>my qrp (5 watt) operation I hear many guys in the qrp activity contests
>that are VERY weak and I can NOT work them. Using these 25 dollar kit
>radios that put out 200 mw is fun but not really communicating.

Horse Puckey! I have worked Australia with one of the "\$25 radios,"

I think

>at the present time increasing the power will kill the bottom of the qrp
>bunch that are new squeaky voiced kids with there sst rigs and 38s stuff.

WHOA!!! hold it right there! Squeaky voiced kids indeed! How about 39 years as
a HAM, and enjoying the H*LL out of SSTs and 38 Spls!

Sorry, Gang, but this one TiCKed me off (pun intended)

Sent at 18:58:59 on 14-Jul-97

John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@n4js.ampr.org NJ Grid:FM29LN
<http://www.qsl.net/n4js> NJ-QRP #57 QRP-L #884
QRP-ARCI #9328 CQC #443 CQrp #50
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243
WIMPS Qs=027 30m=24 17m=3 12m=0 States=09/02/00 Countries=14/02/00

End of QRP-L Digest 787

